



DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090.4
Ser 05BL.DR/0181
June 9, 1999

Ms. Ana Veloz-Townsend
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Dear Ms. Veloz-Townsend:

In a letter of November 14, 1997, the Navy proposed closure of four Underground Storage Tank (UST) Sites inside the northeast corner of Building 129, Long Beach Naval Shipyard (LBNSY). These USTs were identified as numbers 129.6, 129.7, 129.8, and 129.9. In the Regional Water Quality Control Board (RWQCB) response letter dated December 18, 1997, the RWQCB approved closure of 129.6 and 129.7 but requested additional sampling down gradient of USTs 129.8 and 129.9. As part of the Navy's ongoing Areas of Concern investigation at the LBNSY, we performed sampling at four locations in the area of the USTs. We performed one up gradient and one down gradient sample at each UST location for metals, VOCs (60 analytes), SVOCs (64 analytes), TPH-Diesel, and TPH-Motor Oil (both in soil and ground water).

The information of the sampling results is provided in enclosure (1) and (2). None of the analytes were detected above the screening criteria. Although Methyl Tertiary Butyl Ether (MTBE) was not a specified for analysis, the analysis was performed by EPA Method 8260 and if MTBE was detected, the lab would've reported those results. These USTs only contained lubricating oil, no gasoline. So there is no reason to believe that MTBE would be present in soil and groundwater associated with these USTs. Additionally, USTs 129.1 and 129.2 were removed with oversight by the RWQCB in November 1996. These two USTs are located approximately 40 feet down gradient of the 129.8 and 129.9 UST sites. During that removal, MTBE was one of the required analysis to be performed. The results of that event were all Non-detect for MTBE and site closure was approved on May 22, 1998. Based on the aforementioned information, the Navy is requesting a No Further Action for UST sites 129.8 and 129.9. Please send your concurrence on this request to:

Commander
Attn: Mr. Duane Rollefson (Code 05BN.DR)
Southwest Division, Naval Facilities Engineering Command
1220 Pacific Highway
San Diego, CA 92132-5190

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If you have any questions regarding this matter, please contact Mr. Duane Rollefson at (619) 532-4712.

Sincerely,



FAIQ ALJABI
Environmental Engineer
By direction of the Commander

Encl: (1) Table 4.58-5, AOC MISC 6 Sampling Results Summary for Organic Compounds, March 1999
(2) Table 4.58-6, AOC MISC 6 Sampling Results Summary for Metals, March 1999

Copy to:
Ms. Cheryl Sandel
Hazardous Waste Operations Officer
City of Long Beach
Department of Health and Human Services
2525 Grand Ave.
Long Beach, CA 90815

Mr. Wayne Swensen
Underground Tank Enforcement Unit
Bureau of Fire Prevention
925 Harbor Plaza, Suite 100
Long Beach, CA 90802

Table 4.58-5
AOC MISC 6 Sampling Results Summary for Organic Compounds
March 1999

| SOIL | | | | | | GROUNDWATER | | | | |
|-----------------------------------|----------------|-------------------|-----------------------|---------------------------------------|----------------------------------|----------------|-------------------|---------------------------|--|----------------------------------|
| Analytical Parameter | No. of Samples | No. of Detections | Concentration (mg/kg) | Industrial PRG ^(a) (mg/kg) | No. of Detections above Criteria | No. of Samples | No. of Detections | Concentration (mg/L) | Screening Criteria for Water ^(b) (mg/L) | No. of Detections above Criteria |
| VOCs (60 analytes) ^(c) | | | | | | | | | | |
| Chloromethane | 4 | 0 | ND | 2.6 | 0 | 4 | 1 | 0.0008J | 0.0015 ^(e) | 0 |
| Cis-1,2-Dichloroethene | 4 | 0 | ND | 150 | 0 | 4 | 3 | 0.0008J, 0.0009J, 0.0008J | 0.006 ^(e) | 0 |
| Tetrachloroethene | 4 | 2 | 0.004J, 0.001J | 16 | 0 | 4 | 0 | ND | 0.099 | 0 |
| Trichloroethene | 4 | 2 | 0.006, 0.001J | 6.1 | 0 | 4 | 0 | ND | 0.027 | 0 |
| SVOCs (64 analytes) | | | | | | | | | | |
| | 4 | 0 | ND | N/A | 0 | 4 | 0 | ND | N/A | 0 |
| TPH-diesel | 4 | 1 | 1J | 10,000 ^(d) | 0 | 4 | 2 | 0.1J, 0.09J | NA | 0 |
| TPH-motor oil | 4 | 0 | ND | 50,000 ^(d) | 0 | 4 | 0 | ND | 25 | 0 |

Notes:

- (a) From U.S. EPA Region IX Preliminary Remediation Goals, dated May 1, 1998.
- (b) See Section 3.7 for water screening criteria.
- (c) If not listed in this table, the remaining analytes were not detected.
- (d) From Los Angeles Resource Water Quality Control Board, *Interim Site Assessment and Cleanup Guidebook*, Table 4-1, dated May 1996. Values are for soils above a non-drinking water aquifer.
- (e) No Ocean Plan criteria exist. Value presented for chloromethane is from Basin Plan and for cis-1,2-dichloroethene is the tap water PRG; these values are for informational purposes only.

| | | | | | |
|-------|---|-------------------------|----------|---|---|
| AOC | = | Area of Concern | ND | = | Not Detected |
| J | = | Estimated Concentration | No. | = | Number |
| mg/kg | = | Milligrams Per Kilogram | PRG | = | Preliminary Remediation Goal |
| mg/L | = | Milligrams Per Liter | SVOCs | = | Semivolatile Organic Compounds |
| MISC | = | Miscellaneous | TPH | = | Total Petroleum Hydrocarbons |
| NA | = | Not Available | U.S. EPA | = | United States Environmental Protection Agency |
| N/A | = | Not Applicable | VOCs | = | Volatile Organic Compounds |

Table 4.58-6
AOC MISC 6 Sampling Results Summary for Metals
March 1999

| SOIL | | | | | | |
|----------------------|----------------|-------------------|--------------------------|---------------------------------------|---|---|
| Analytical Parameter | No. of Samples | No. of Detections | Concentration (mg/kg) | Industrial PRG ^(a) (mg/kg) | Background Level ^(b) (mg/kg) | No. of Detections above Industrial PRG and Background |
| Antimony | 4 | 3 | 0.13, 0.21, 0.36 | 750 | 11.3 | 0 |
| Arsenic | 4 | 4 | 2.0, 3.5, 2.4, 2.0 | 3.0 | 17.5 | 0 |
| Barium | 4 | 4 | 32.5J, 81.0J, 29.2, 61.4 | 100,000 | 275 | 0 |
| Beryllium | 4 | 0 | ND | 3,400 | 1.4 | 0 |
| Cadmium | 4 | 0 | ND | 930 | 1.7 | 0 |
| Chromium | 4 | 4 | 12.3, 17.0J, 8.8, 13.0 | 450 | 60.9 | 0 |
| Cobalt | 4 | 4 | 4.7, 8.3, 4.9, 7.1 | 29,000 | 24.5 | 0 |
| Copper | 4 | 4 | 5.4, 9.7, 5.2, 8.1 | 70,000 | 798.7 | 0 |
| Lead | 4 | 4 | 7.3, 3.1, 3.1J, 1.4 | 1,000 | 185.2 | 0 |
| Mercury | 4 | 0 | ND | 560 | 2.5 | 0 |
| Molybdenum | 4 | 0 | ND | 9,400 | NA | 0 |
| Nickel | 4 | 4 | 7.5, 12.4, 6.2, 10.0 | 37,000 | 32.6 | 0 |
| Selenium | 4 | 1 | 0.66J | 9,400 | 1.4 | 0 |
| Silver | 4 | 0 | ND | 9,400 | 1.5 | 0 |
| Thallium | 4 | 0 | ND | 150 | 4.2 | 0 |
| Vanadium | 4 | 4 | 28.0, 29.2, 20.9, 25.9 | 13,000 | 84.9 | 0 |
| Zinc | 4 | 4 | 27.0, 38.5, 23.9, 36.6 | 100,000 | 844.9 | 0 |

Table 4.58-6 (continued)
AOC MISC 6 Sampling Results Summary for Metals
March 1999

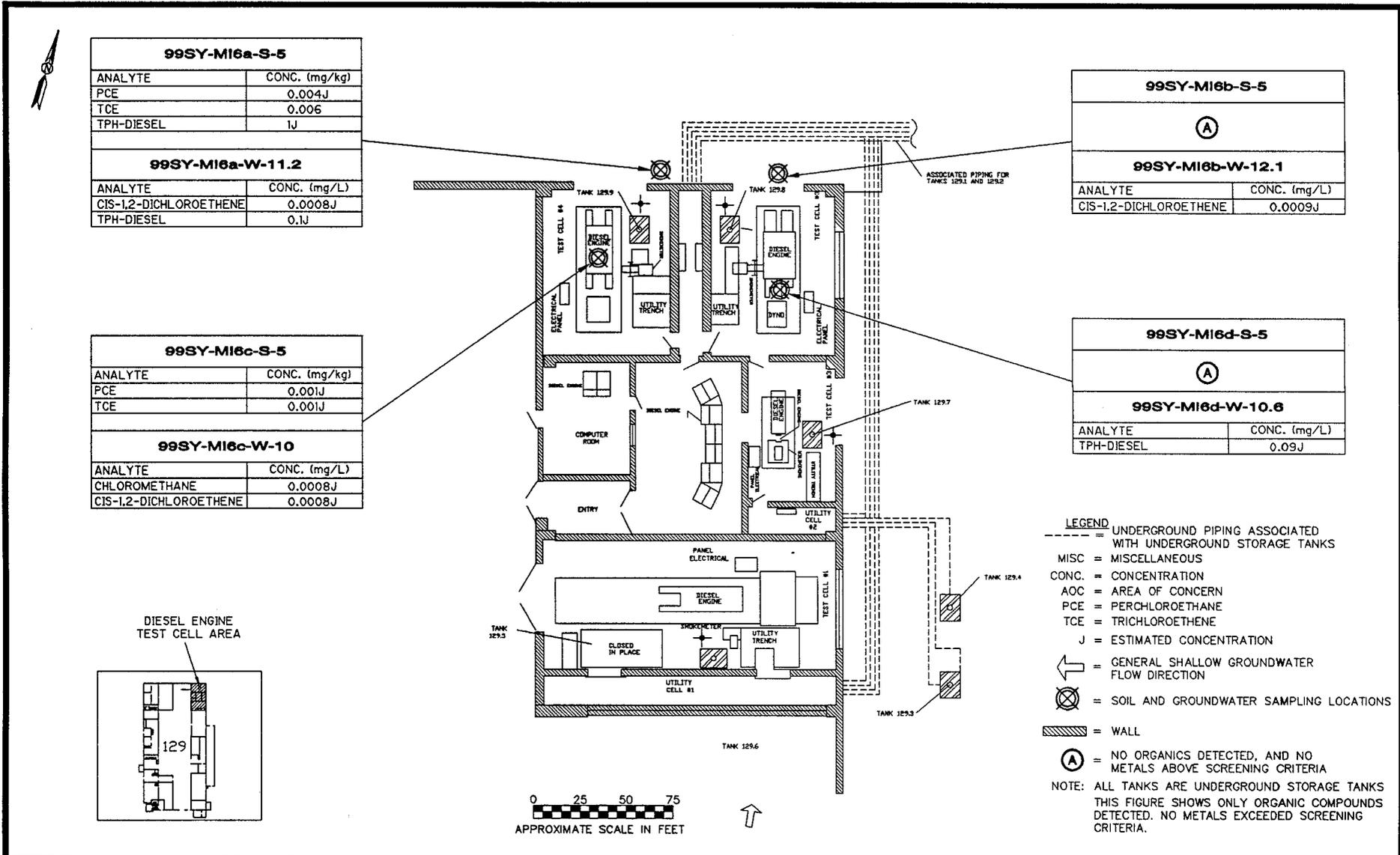
| GROUNDWATER | | | | | | |
|----------------------|----------------|-------------------|-----------------------------|--|--|---|
| Analytical Parameter | No. of Samples | No. of Detections | Concentration (mg/L) | Screening Criteria for Water ^(c) (mg/L) | Background Level ^(b) (mg/L) | No. of Detections above Industrial PRG and Background |
| Antimony | 4 | 1 | 0.0123 | 1.2 | 0.0616 | 0 |
| Arsenic | 4 | 0 | ND | 0.008 | 0.0276 | 0 |
| Barium | 4 | 4 | 0.137J, 0.149J, 0.1J, 0.144 | 1 ^(d) | 0.1777 | 0 |
| Beryllium | 4 | 0 | ND | 3.3x10 ⁻⁵ | 0.002 | 0 |
| Cadmium | 4 | 0 | ND | 0.001 | 0.0017 | 0 |
| Chromium | 4 | 1 | 0.0053 | 190 | 0.0029 | 0 |
| Cobalt | 4 | 0 | ND | 2.2 ^(d) | 0.0071 | 0 |
| Copper | 4 | 0 | ND | 0.003 | 0.1072 | 0 |
| Lead | 4 | 1 | 0.0043 | 0.002 | 0.028 | 0 |
| Mercury | 4 | 0 | ND | 4.0x10 ⁻⁵ | 0.0009 | 0 |
| Molybdenum | 4 | 2 | 0.0144J, 0.0159 | 0.18 ^(d) | NA | 0 |
| Nickel | 4 | 1 | 0.0048 | 0.005 | 0.0958 | 0 |
| Selenium | 4 | 3 | 0.0082J, 0.0074, 0.006 | 0.015 | 0.040 | 0 |
| Silver | 4 | 1 | 0.0015 | 0.0007 | 0.0072 | 0 |
| Thallium | 4 | 0 | ND | 0.014 | 0.0075 | 0 |
| Vanadium | 4 | 0 | ND | 0.26 ^(d) | 0.0107 | 0 |
| Zinc | 4 | 1 | 0.0075 | 0.020 | 0.291 | 0 |

Notes:

- (a) From U.S. EPA Region IX Preliminary Remediation Goals, dated May 1, 1998.
- (b) Background levels are listed in Appendix L.
- (c) See Section 3.7 for screening criteria for water.
- (d) No Ocean Plan criteria exist. Value presented is for informational purposes only.

AOC = Area of Concern
 mg/kg = Milligrams Per Kilogram
 mg/L = Milligrams Per Liter
 NA = Not Available

ND = Not Detected
 PRG = Preliminary Remediation Goal
 U.S. EPA = United States Environmental Protection Agency



**LONG BEACH NAVAL SHIPYARD
LONG BEACH, CALIFORNIA**

CDM Federal Programs Corporation
A Subsidiary Of Camp Dresser & McKee Inc.

DATE: 6/99
FN: 4.58-8

MODIFIED BY: J. Brown PROJECT NO. 6210-014

**SAMPLING RESULTS SUMMARY, FEBRUARY-MARCH 1999
AOC MISC 6, DIESEL TEST CELL BUILDING 129 INCLUDING
USTs 129.3 TO 129.9**

GROUP B AREAS OF CONCERN

**FIGURE
4.58-8**

DISCLAIMER: Figure scale is provided for general location purposes only and is not intended for construction-related projects.